SAMSUNG

Code No. AH68-02053B(REV:02)

HT-Z110
HT-TZ112
HT-TZ115

Digital Home Cinema System

user manual

imagine the possibilities

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To receive more complete service,
please register your product at
www.samsung.com/global/register

SAMSUNG

Safety Warnings

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids,such as vases,shall be placed on the apparatus.
- This apparatus shall always be connected to a AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

Wiring the Main Power Supply Plug(UK Only)

IMPORTANT NOTICE

The main lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and if it requires replacing, a fuse approved to BS1362 of the same rating must be used.
Never use the plug with the fuse cover removed. If the cover is detachable and a replacement is required, it must be of the same colour as the fuse fitted in the plug. Replacement covers are available from your dealer.
If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.
However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a main socket as there is a risk of shock hazard from the bared flexible cord.
Never attempt to insert bare wires directly into a main socket. A plug and fuse must be used at all times.

IMPORTANT

The wires in the main lead are coloured in accordance with the following code:–

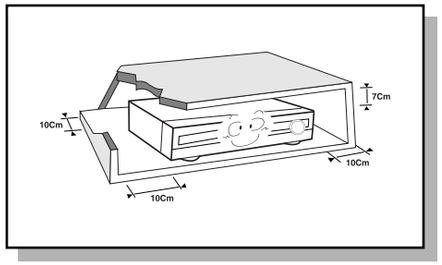
BLUE = NEUTRAL BROWN = LIVE

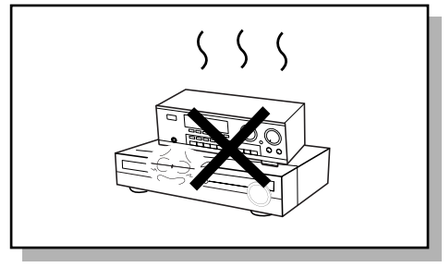
As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:–
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚, OR COLOURED GREEN OR GREEN AND YELLOW.

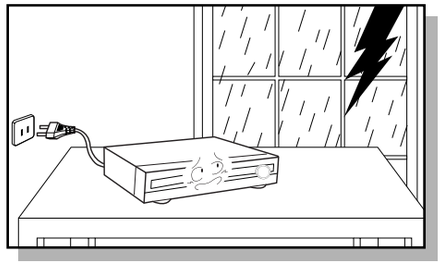
This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life.
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.
Business users should contact their supplier and check the terms and conditions of the purchase contract.
This product should not be mixed with other commercial wastes for disposal.

Precautions

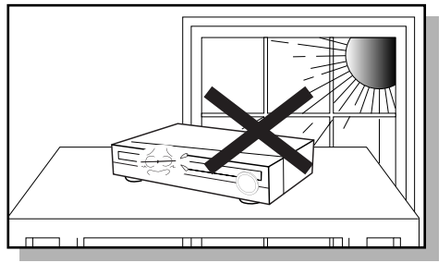




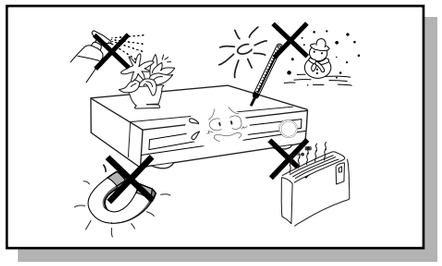
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (7.5~10cm). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect AC main plug from the wall outlet.
Voltage peaks due to lightning could damage the unit.



Do not expose the unit to direct sunlight or other heat sources.
This could lead to overheating and malfunction of the unit.

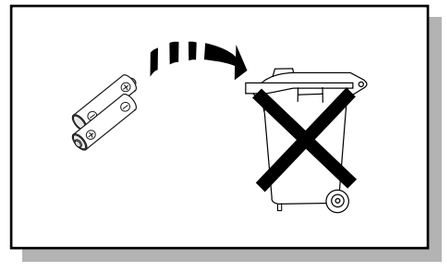


Protect the player from moisture(i.e. vases) , and excess heat (e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use.

Use of this product is for personal use only.

Condensation may occur if your player or disc has been stored in cold temperatures.

If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The batteries used with this product contain chemicals that are harmful to the environment.

Do not dispose of batteries in the general household trash.

Features

Multi-Disc Playback & FM Tuner
The HT-Z110/HT-TZ112/HT-TZ115 combines the convenience of multi-disc playback capability, including DVD-VIDEO, CD, MP3-CD, WMA-CD, DivX, CD-R/RW, and DVD-R/RW, with a sophisticated FM tuner, all in a single player.

Dolby Pro Logic II
Dolby Pro Logic II is a new form of multi-channel audio signal decoding technology that improves upon existing Dolby Pro Logic.

DTS (Digital Theater Systems)
DTS is an audio compression format developed by Digital Theater Systems Inc. It delivers full-frequency 5.1 channel sound.

TV Screen Saver Function
The HT-Z110/HT-TZ112/HT-TZ115 automatically brightens and darkens your TV screen after 3 minutes in the stop mode.
The HT-Z110/HT-TZ112/HT-TZ115 automatically switches itself into the power saving mode after 20 minutes in the screen saver mode.

Power Saving Function
The HT-Z110/HT-TZ112/HT-TZ115 automatically shuts itself off after 20 minutes in stop mode.

Customized TV Screen Display
The HT-Z110/HT-TZ112/HT-TZ115 allows you to select your favorite image during JPEG, DVD playback and set it as your background wallpaper.

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Notes on Discs

DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie theater or concert hall.

DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Number for this player is given on the rear panel of the player.
(Your DVD player will only play DVDs that are labeled with identical region codes.)

Playable Discs

Disc Type	Mark (Logo)	Recorded Signals	Disc Size	Max. Playing Time
DVD-VIDEO		Audio + Video	12cm	Approx. 240 min. (single-sided)
				Approx. 480 min. (double-sided)
			8cm	Approx. 80 min. (single-sided)
				Approx. 160 min. (double-sided)
AUDIO-CD		Audio	12cm	74 min.
			8cm	20 min.
Divx		Audio + Video	12cm	74 min.
			8cm	20 min.

Do not use the following types of disc!

- LD, CD-G, CD-I, CD-ROM and DVD-ROM discs cannot be played on this player.
  If such discs are played, a "**WRONG DISC FORMAT**" message appears on the TV screen.
- DVD discs purchased abroad may not play on this player.
  If such discs are played, a "**WRONG REGION CODE**" message appears on the TV screen.

Copy Protection

- **Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.**
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Disc Recording Format

This product does not support Secure (DRM) Media files.

CD-R Discs

- Some CD-R discs may not be playable depending on the disc recording device (CD-Recorder or PC) and the condition of the disc.
- Use a 650MB/74 minute CD-R disc.
  Do not use CD-R discs over 700MB/80 minute as they may not be played back.
- Some CD-RW (Rewritable) media, may not be playable.
- Only CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

CD-R MP3 Discs

- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Use discs recorded with a compression/decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
- Only a consecutively written Multisession disc can be played. If there is a blank segment in the Multisession disc, the disc can be played only up to the blank segment.
- If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.
- For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.
- A maximum of 500 tracks can be played per CD.
- A maximum of 300 folders can be played per CD.

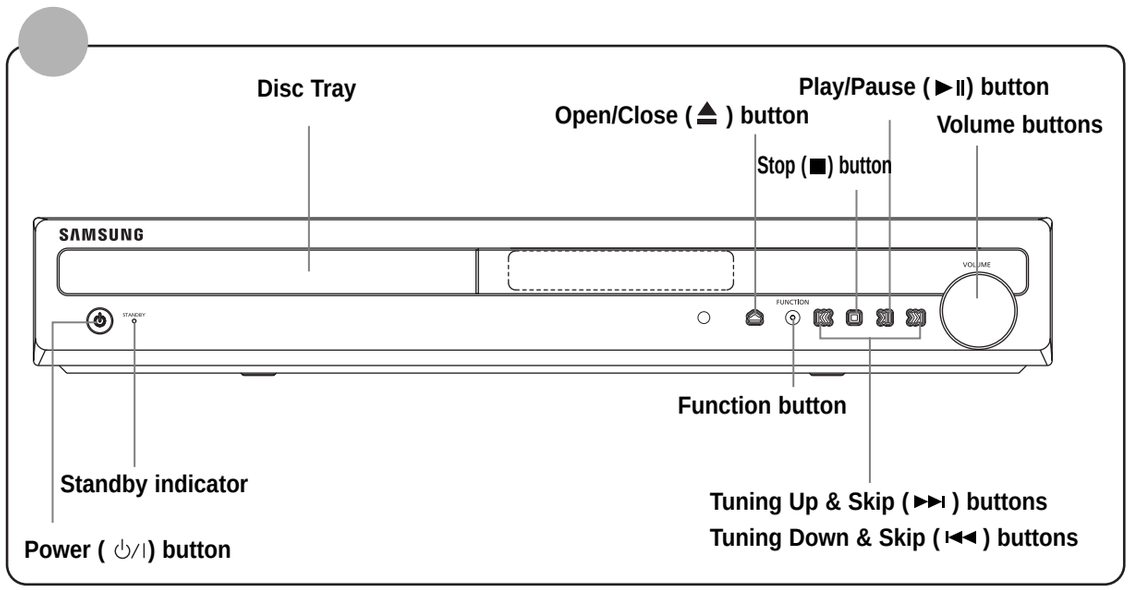
CD-R JPEG Discs

- Only files with the ".jpeg" and ".JPEG" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
- A maximum of 9,999 images can be stored on a single CD.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
- Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.

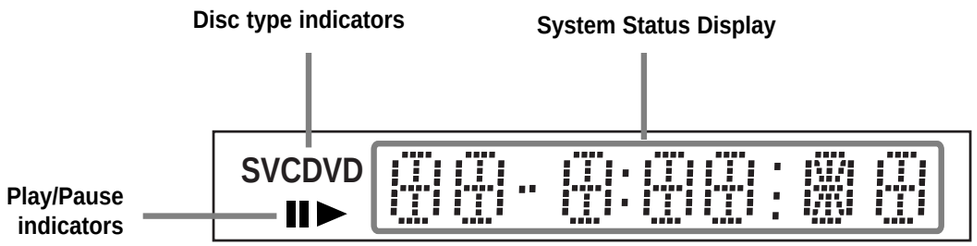
CD-R/RW DivX Discs

- Since this product only provides encoding formats authorized by DivX Networks, Inc., a DivX file created by the user might not be played.
- Software update for unsupported formats is not supported.
  (Example: QPEL, GMC, resolution higher than 720 x 480 pixels, etc.)
- Sections with high frame rate might not be played while playing a DivX file.
- For more information about the formats authorized by DivX Networks, Inc., visit "www.divxnetworks.net".

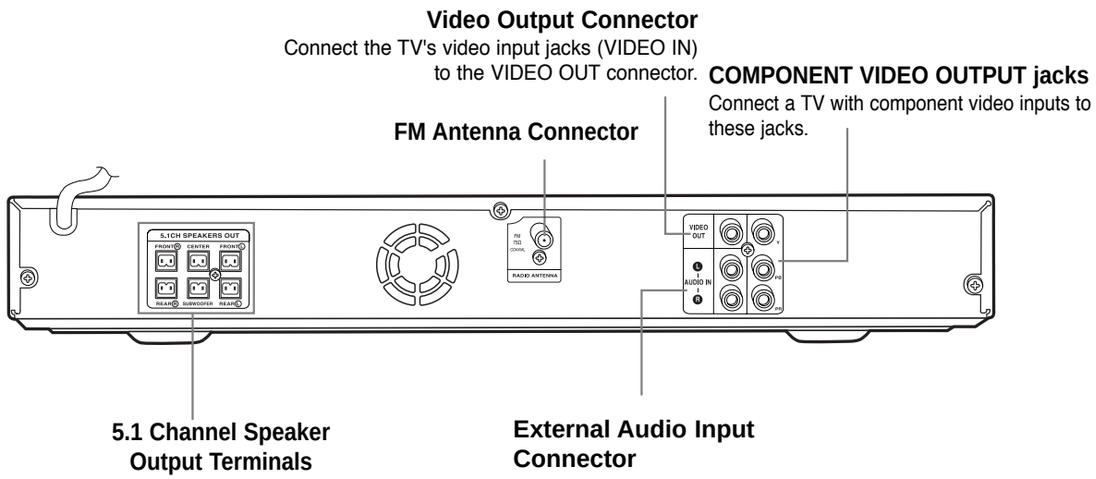
Description



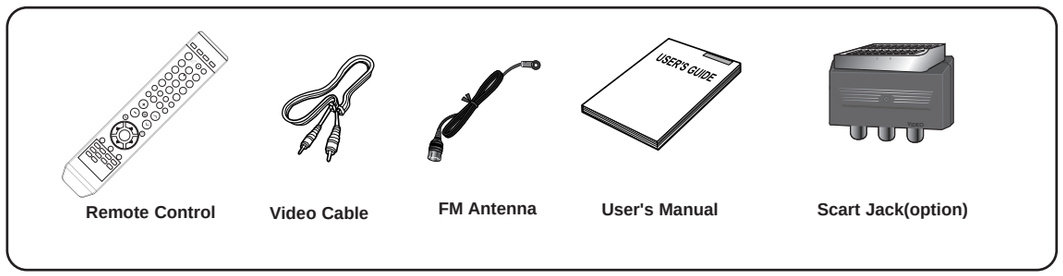
—Display—



—Rear Panel—

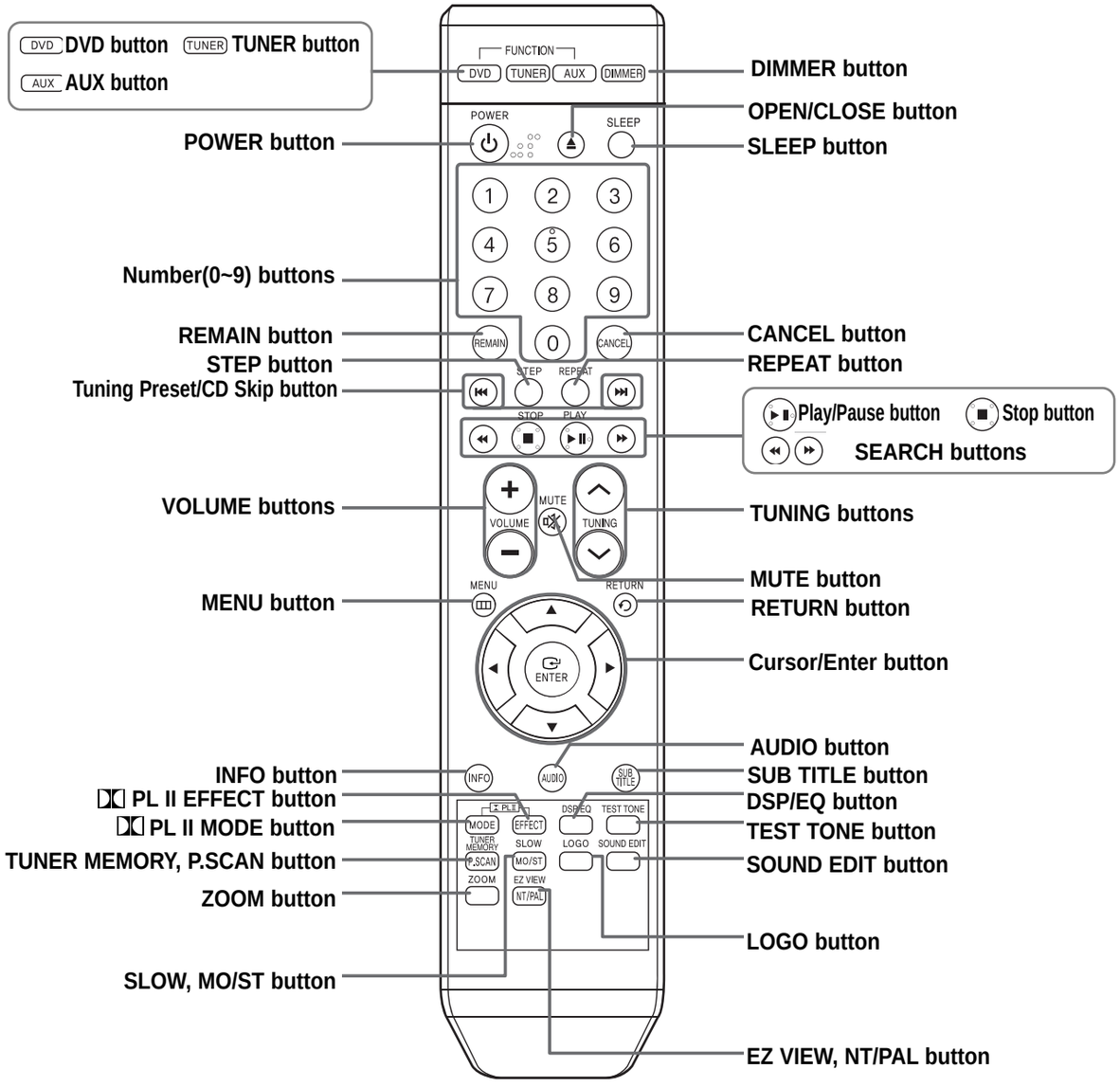


Accessories



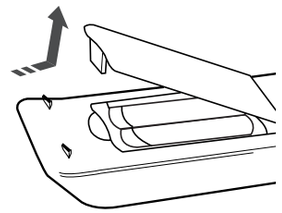
Description

—Remote Control—

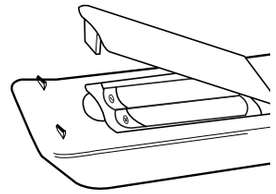


Insert Remote Batteries

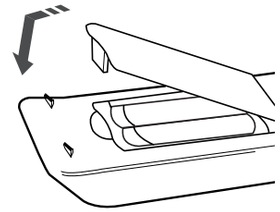
1 Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.



2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).



3 Replace the battery cover.

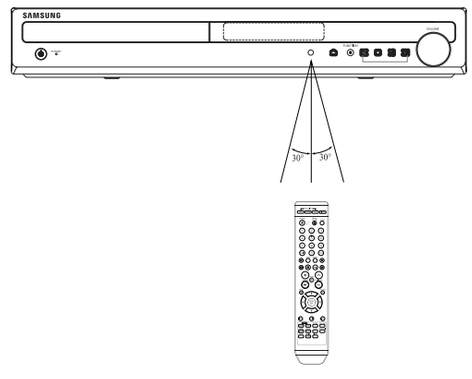


Caution **Follow these precautions to avoid leaking or cracking cells:**

- Place batteries in the remote control so they match the polarity:(+) to (+)and (–)to (–).
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

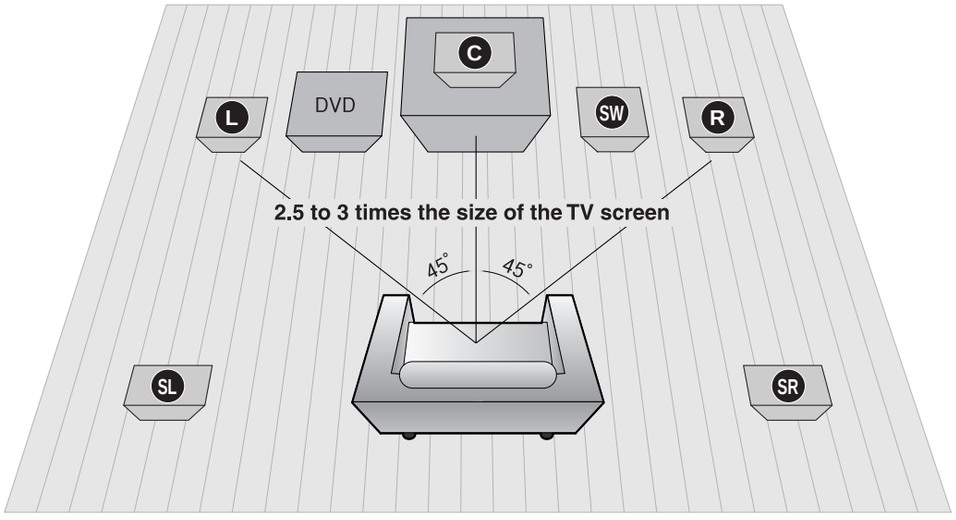
Range of Operation of the Remote Control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



Connecting the Speakers

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



Position of the DVD Player

- Place it on a stand or cabinet shelf, or under the TV stand.

Front Speakers L R

- Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
- Place the speakers so that their tweeters will be at the same height as your ear.
- Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

Center Speaker C

- It is best to install it at the same height as the front speakers.
- You can also install it directly over or under the TV.

Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV. Example: For 32" TVs 2~2.4m (6~8feet)
For 55" TVs 3.5~4m (11~13feet)

Rear Speakers SL SR

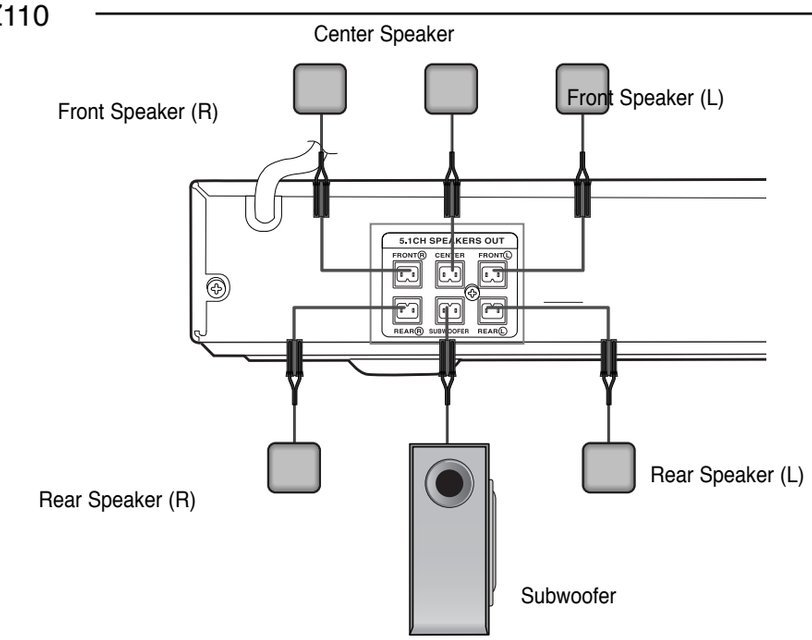
- Place these speakers behind your listening position.
- If there isn't enough room, place these speakers so they face each other.
- Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.

* Unlike the front and center speakers, the rear speakers are used to handle mainly sound effects and sound will not come from them all the time.

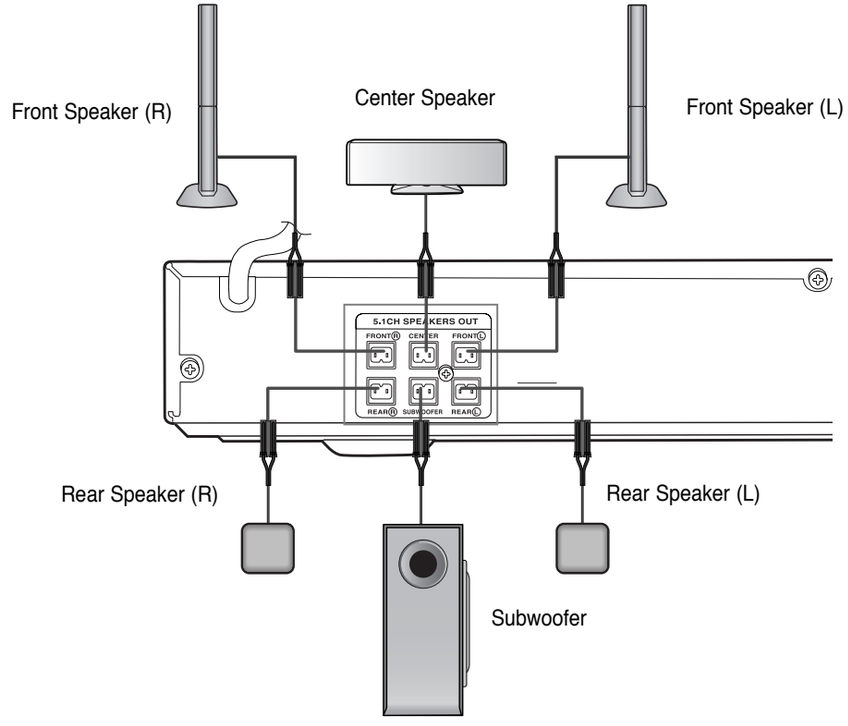
Subwoofer SW

- The position of the subwoofer is not so critical. Place it anywhere you like.

HT-Z110

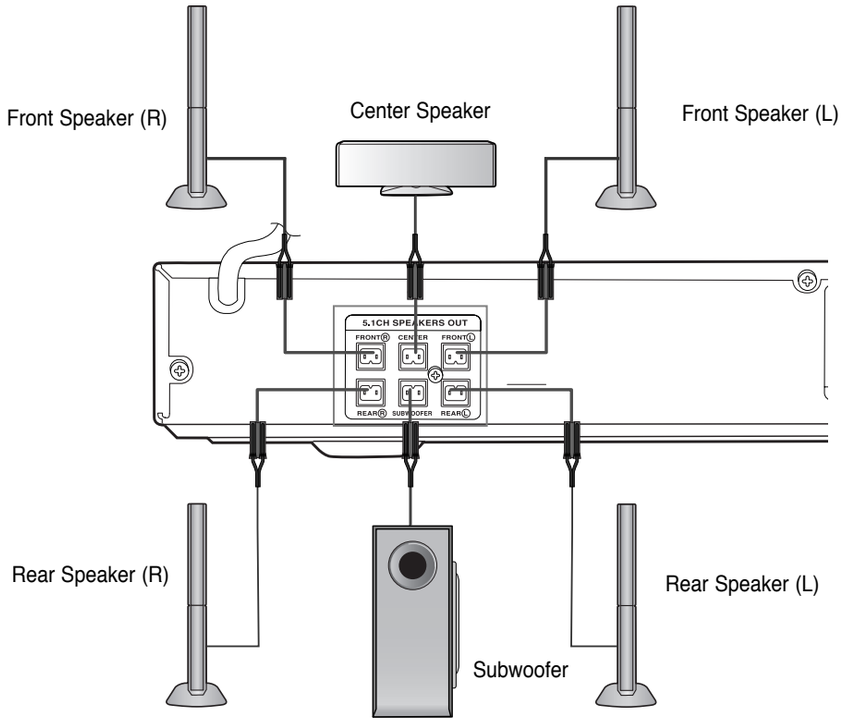


HT-TZ112



Connecting the Speakers(Con't)

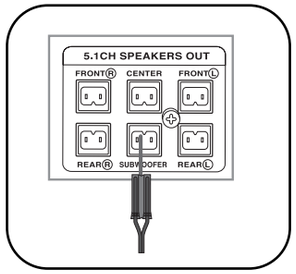
HT-TZ115



Back of the Main Unit

Connect the correcting jacks to the back of the DVD player.

- Mack sure the colors of the speaker terminals match the colors of the connecting jacks.



Caution

- Do not let children play with or near the speakers. They could get hurt if a speaker falls.

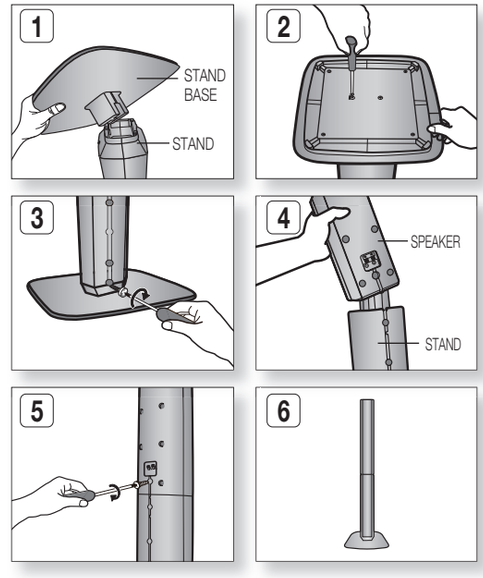
Note

- If you place a speaker near your TV set, screen color may be distorted because of the magnetic field generated by the speaker. If this occurs, place the speaker away from your TV set.

Front/Rear Tallboy Stand

How to Install the Speaker on the Stand

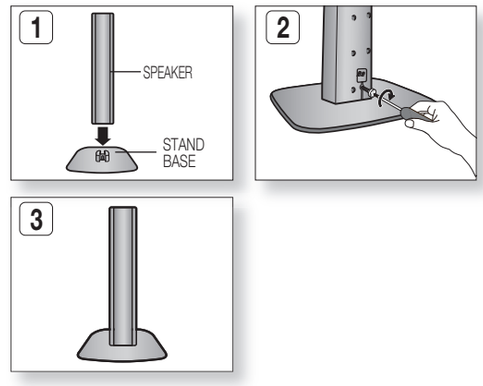
1. Turn the **STAND** upside-down and connect it to the **STAND BASE**.
2. Insert two small **SCREWS** into the two holes marked with arrows using a screwdriver as shown in the illustration. (HT-TZ112/TZ115 : 2EA)
3. Insert a large **SCREW** into the hole on the rear of the Speaker **STAND**.
4. Connect the assembled stand to the **SPEAKER**.
5. Insert another large **SCREW** into the hole on the rear of the speaker using a screwdriver as shown in the illustration.
6. This is the successfully assembled speaker. Make sure that the speaker is installed on a flat and stable area. Otherwise it may be easily knocked over.



■ The speaker system may vary, depending on the model. Please check your speaker system to see if it includes the correct package of "**Front/rear & Center Speakers**" corresponding to your model.

How to Install the Speaker on the Stand Base

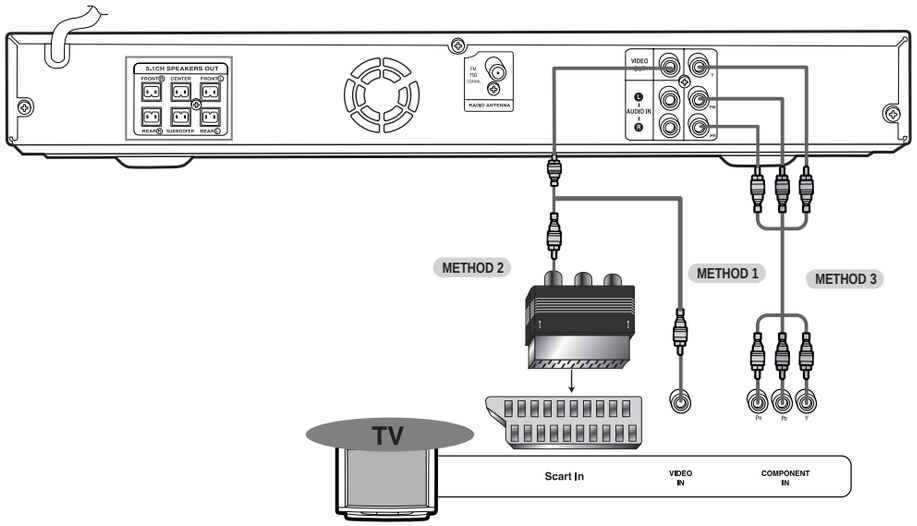
1. Connect the **SPEAKER** with the **STAND BASE**.
2. Insert the **SCREW** into the hole on the rear of the speaker using a screwdriver as shown in the illustration.
3. This is the **SPEAKER** successfully assembled with the Stand Base.



■ The speaker system may vary, depending on the model. Please check your speaker system to see if it includes the correct package of "**Front/rear & Center Speakers**" corresponding to your model.

Connecting the Video Out to TV

Choose one of the three methods for connecting to a TV.



METHOD 1 **Composite Video ····· Good Quality**

Connect the supplied video cable from the VIDEO OUT jack on the back panel of the system to the VIDEO IN jack on your television.

METHOD 2 **Scart ····· Good Quality**

If your television is equipped with a SCART input, connect the supplied video cable from the VIDEO OUT jack on the back panel of the system to the VIDEO jack on the Scart Jack, then connect the SCART jack to the SCART IN jack on your television.

METHOD 3 **Component (Progressive Scan) Video ····· Best Quality**

If your television is equipped with Component Video inputs, connect a component video cable (not supplied) from the Pr, Pb and Y jacks on the back panel of the system to the corresponding jacks on your television.

Note

- When the Progressive scan mode is selected,the VIDEO output do not feed any signals.

P.SCAN(Progressive Scan) Function

Unlike regular Interlace Scan, in which two fields of picture information alternate to create the entire picture (odd scan lines, then even scan lines), Progressive Scan uses one field of information (all lines displayed in one pass) to create a clear and detailed picture without visible scan lines.

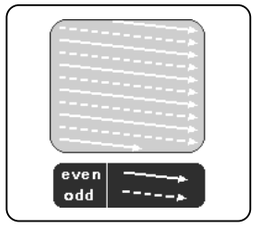
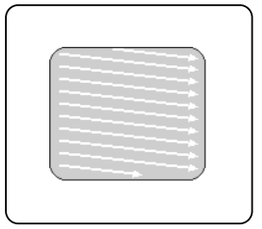
1 **Press STOP button.**

- If playing a disc, press the **STOP** button twice so that "**STOP**", appears on the display.

2 **Press and hold P.SCAN button on the remote control for over 5 seconds.**

- Pressing and holding the button for over 5 seconds will select "**P.SCAN**" and "**I.SCAN**" alternately.
- When you select P.SCAN, "**P.SCAN**" will appear on the display.
- To set P.Scan mode for DivX discs, press the **P.SCAN** button on the remote control for more than 5 seconds with no disc in the unit ("**NO DISC**" on the display), then load the DivX disc and play.

What is Progressive (or Non-Interlaced) Scanning?

Interlaced Scan (1 FRAME = 2 FIELDS)	Progressive Scan (FULL FRAME)
	
In interlaced-scan video, a frame consists of two interlaced fields (odd and even), where each field contains every other horizontal line in the frame. The odd field of alternating lines is displayed first, and then the even field is displayed to fill in the alternating gaps left by the odd field to form a single frame. One frame, displayed every 1/30th of a second, contains two interfaced fields, thus a total of 60 fields are displayed every 1/60th of a second. The interlaced scanning method is intended for capturing a still object.	The progressive scanning method scans one full frame of video consecutively down the screen, line by line. An entire image is drawn at one time, as opposed to the interlaced scanning process by which a video image is drawn in a series of passes. The progressive scanning method is desirable for dealing with moving objects.

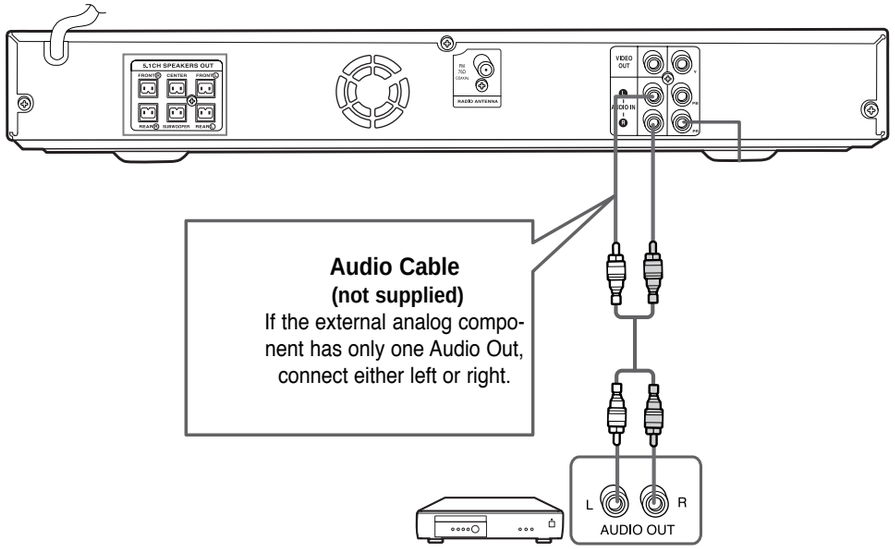
Note

- Depending on the capabilities of your TV, this function may not work.

Connecting External Components

Connecting an External Analog Component

Example: Analog signal components such as a VCR.



1 Connect AUX (Audio) In on the Home Theater to Audio Out on the external analog component.

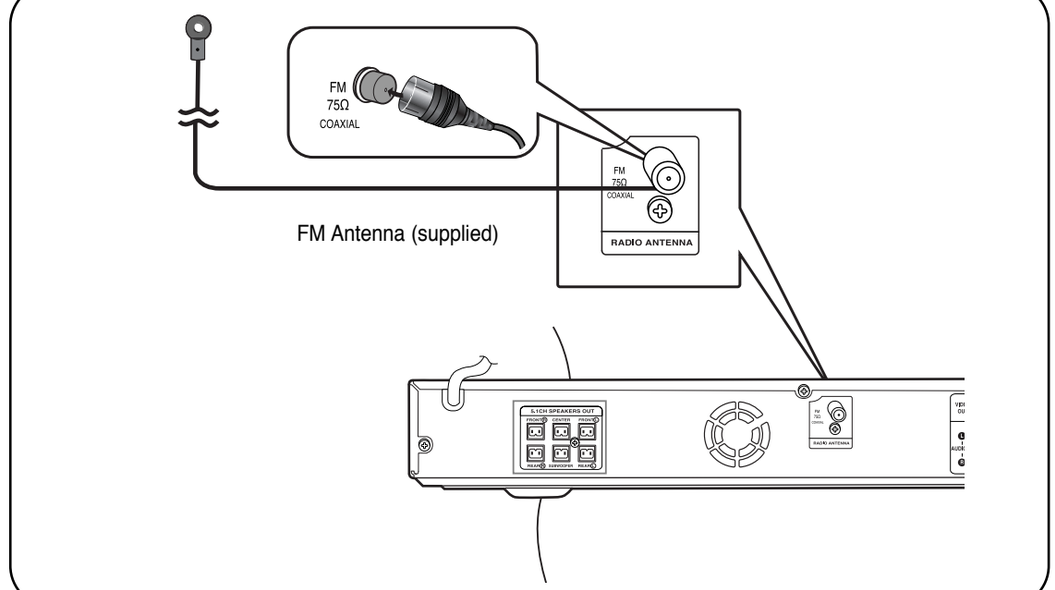
- Be sure to match connector colors.

2 Press **AUX** button on the remote control to select 'AUX' input.

- You can also use the **FUNCTION** button on the main unit.
  The mode switches as follows: **FM → DVD/CD → AUX**

Note • You can connect the Video Output jack on your VCR to the TV, and connect the Audio Output jacks on the VCR to this product.

Connecting the FM Antenna



1 Connect the FM antenna supplied to the FM 75Ω COAXIAL terminal.

2 Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

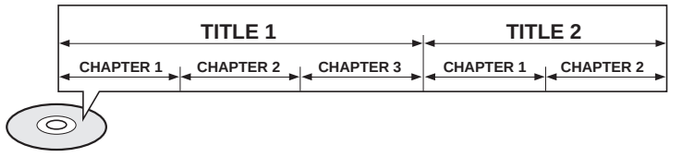
Note • This unit does not receive AM broadcasts.

Before Using Your Home Theater

Disc terminology

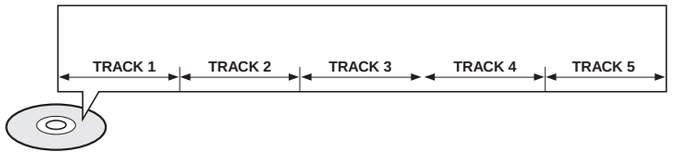
Titles and chapters (DVD-VIDEO)

- DVD-video is divided into several large sections called "titles" and smaller sections called "chapters". Numbers are allotted to these sections.
  These numbers are called "title numbers" and "chapter numbers".



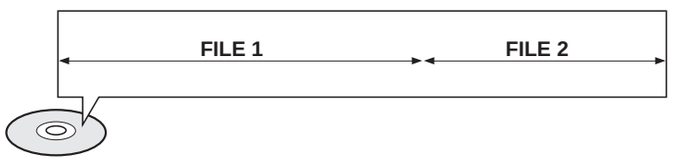
Tracks (Video and music CDs)

- Video and music CDs are divided into sections called "tracks".
  Numbers are allotted to these sections. These numbers are called "track numbers".



Files (DivX)

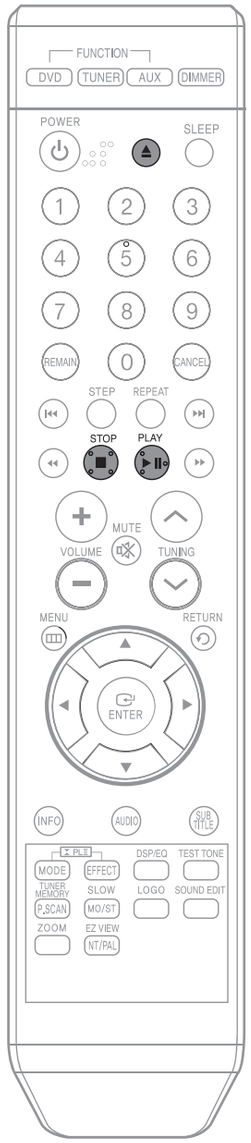
- DivX is divided into sections called "files".
  Numbers are allotted to these sections. These numbers are called "file numbers".



Note

- **In this manual, the instructions marked with "DVD (DVD)" are applicable to DVD-VIDEO and DVD-R/RW discs.**
  Where a particular DVD type is mentioned, it is indicated separately.
- Depending on the content of the disc, the initial screen may appear different.

Disc Playback



Note

- Depending on the content of the disc, the initial screen may appear different.

1 Press **OPEN/CLOSE** button to open the disc tray.

2 Load a disc.
- Place a disc gently into the tray with the disc's label facing up.

3 Press **OPEN/ CLOSE** button to close the disc tray.

DVD CD

- Playback starts automatically.

To stop playback, press **STOP** during playback.

- If pressed once, "**PRESS PLAY**" is displayed and the stop position will be stored in memory. If **PLAY/PAUSE** (▶II) button or **ENTER** button is pressed, playback resumes from the stop position. (This function works only with DVDs.)
- If pressed twice, "**STOP**" is displayed, and if **PLAY/PAUSE** (▶II) button is pressed, playback starts from the beginning.

To temporarily pause playback, press **PLAY/PAUSE** during playback.

- To resume playback, press **PLAY/PAUSE** (▶II) button again.

Selecting the Video Format

Press and hold **NT/PAL** button on the remote controller for over 5 seconds while the power is turned off.

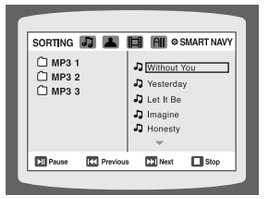
- By default, the video format is set to "PAL".
- "**NTSC**" or "**PAL**" will appear in the display. At this time, press the **NT/PAL** button shortly to select between "**NTSC**" and "**PAL**".
- Each country has a different video format standard.
- For normal playback, the video format of the disc must be the same as the video format of your TV.

MP3/WMA-CD Playback

Data CDs (CD-ROM, CD-R, CD-RW) encoded in MP3/WMA format can be played.

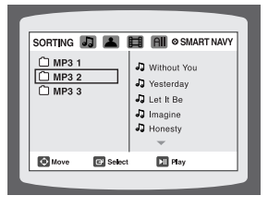
1 Press the **OPEN/CLOSE** button to open the disc tray, and then load the MP3/WMA disc.

- The MP3/WMA menu screen will appear and playback will start.
- The appearance of the menu depends on the MP3/WMA disc.
- WMA-DRM files cannot be played.



2 In Stop mode, use ◀ ▶ ▲ ▼ to select the album, and then press the **ENTER** button.

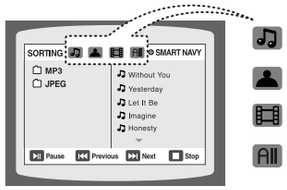
- Use ▲▼ to select the track.



To play a file icon in the screen,

Press the ◀ ▶ ▲ ▼ button when it is in stop status and select a desired icon from the top part of the menu.

- To play music files only, select the Icon.
- To view image files only, select the Icon.
- To view movie files only, select the Icon.
- To select all files select the Icon.



- Music File Icon
- Image File Icon
- Movie File Icon
- All File Icon

MP3/WMA-CD Playback(con't)

3 To change the album, use ◀ ▶ ▲ ▼ to select another album in Stop mode, and then press the **ENTER** button.

- To select another album and track, repeat Steps 2 and 3 above.

4 Press the **STOP** button to stop playback.

Note

- Depending on the recording mode, some MP3/WMA-CDs may not play.
- Table of contents of a MP3-CD varies depending on the MP3/WMA track format recorded on the disc.

Displaying Disc Information

You can view disc playback information on the TV screen.

Press **INFO** button.

- Each time the button is pressed, the display changes as follows:

DVD

The information Display disappears from the screen

CD

The information Display disappears from the screen

MP3 DivX JPEG

The information Display disappears from the screen

- **appears on the TV screen!**

If this symbol appears on the TV screen while buttons are being operated, that operation is not possible with the disc currently being played.

Note

- Depending on the disc, the disc information display may appear different.
- Depending on the disc, you can also select DTS, DOLBY DIGITAL, or PRO LOGIC.

- **What is a Title?**
  A movie contained in a DVD-VIDEO disc.
- **What is a Chapter?**
  Each title on a DVD disc is divided into several smaller sections called "chapters".
- **What is a Track (File)?**
  A section of video or a music file recorded on a CD, or MP3-CD.

Screen Display

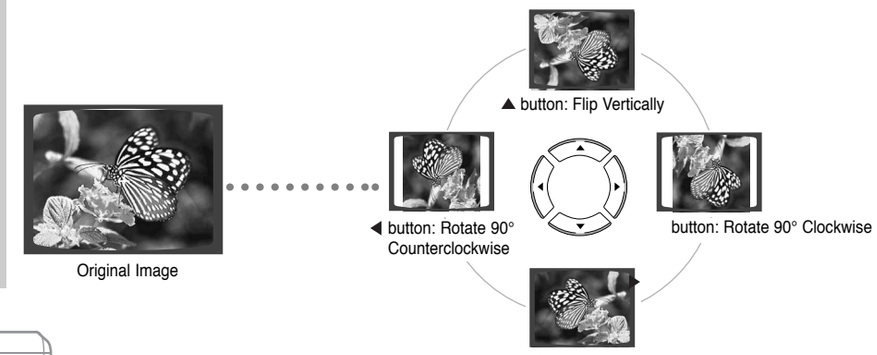
- DVD DVD display
- CD CD display
- TITLE display
- CHAPTER display
- TRACK (FILE) display
- ELAPSED TIME display
- REPEAT PLAYBACK display
- AUDIO LANGUAGE display
- SUBTITLE display
- LR STEREO (L/R) display
- DOLBY DIGITAL display
- ANGLE display

JPEG File Playback JPEG

Images captured with a digital camera or camcorder, or JPEG files on a PC can be stored on a CD and then played back with this Home Theater.

Rotate/Flip Function

Press Cursor ▲, ▼, ◀, ▶ buttons during playback.



Note

- The maximum resolutions supported by this product are 5120 x 3480 (or 19.0 MPixel) for standard JPEG files and 2048 x 1536 (or 3.0 MPixel) for progressive image files.

DivX Playback

The functions on this page apply to DIVX disc playback.

Skip Forward/Back

During playback, press the ⏮, ⏭ button.

- Goes to the next file whenever you press ⏭ button, if there are over 2 files in the disk.
- Goes to the previous file whenever you press ⏮ button, if there are over 2 files in the disk.

Fast playback

To play back the disc at a faster speed, press ◀◀ or ▶▶ during playback.

- Each time you press either button, the playback speed will change as follows:
  2x → 4x → 8x → 32x → Normal.

5 Minute Skip function

During playback, press the ◀,▶ button.

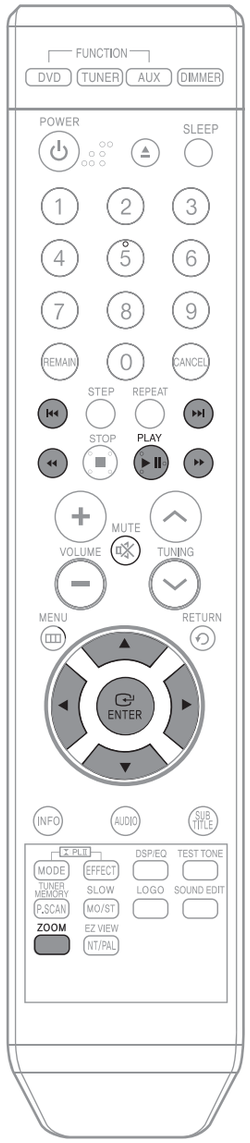
- Playback skips 5 minutes forward whenever you press ▶ button.
- Playback skips 5 minutes back whenever you press ◀ button.

Zoom Function

1 Press **ZOOM** button.

- Each time you press the button, your selection will toggle between "**ZOOM X2**" and "**ZOOM OFF**".

2 Press Cursor ▲,▼, ◀,▶ buttons to move to the area you want to enlarge.



Note

- DIVX file can be zoomed only in ZOOM X2 mode.
- DivX files have .Avi file extensions, however, not all .Avi files are DivX and may not be playable in this unit.

Subtitle Display

Press the **SUBTITLE** button.

- Each time you press the button, your selection will toggle between "**SUBTITLE** (1/1, 1/2 ...)" and "**SUBTITLE OFF**".
- If the disc has only one subtitle file, it will be played automatically.
- See number 2 (Caption Function) below for more details concerning Subtitle usage with DIVX discs.

Audio Display

Press the **AUDIO** button.

- If there are multiple audio tracks on a disc, you can toggle between them.
- Each time you press the button, your selection will toggle between "**AUDIO**(1/1, 1/2 ...)" and " ".

Note • " " is displayed when there is one supported language in the disc.

DivX(Digital internet video eXpress)

DivX is a video file format developed by Microsoft and is based on MPEG4 compression technology to provide audio and video data over the Internet in real-time.
MPEG4 is used for video encoding and MP3 for audio encoding so that the users can watch a movie at near DVD-quality video and audio.

1. Supported Formats

- This product only supports the following media formats.If both video and audio formats are not supported, the user may experience problems such as broken images or no sound.

• Supported Video Formats

Format	AVI	WMV
Supported Versions	DivX3.11 ~ 5.1	V1/V2/V3/V7

• Supported Audio Formats

Format	MP3	WMA	AC3	DTS
Bit Rate	80~384kbps	56~128kbps	128~384kbps	1.5Mbps
Sampling Frequency	44.1khz		44.1/48khz	44.1khz

- DivX files, including audio and video files, created in the DTS format can only support up to 6Mbps.
- Aspect Ratio: Although default DivX resolution is 640*480 pixels (4:3), this product supports up to 720*480 pixels (16:9). TV screen resolutions higher than 800 will not be supported.
- When you play a disc whose sampling frequency is higher than 48khz or 320kbps, you may experience shaking on the screen during playback.

2. Caption Function

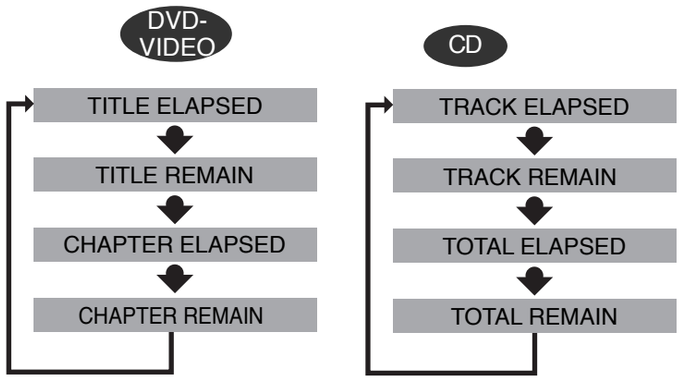
- You must have some experience with video extraction and editing in order to use this feature properly.
- To use the caption function, save the caption file (*.smi) in the same file name as that of the DivX media file (*.avi) within the same folder.
  Example. Root Samsung_007CD1.avi
  Samsung_007CD1.smi
- Up to 60 alphanumeric characters or 30 East Asian characters (2 byte characters such as Korean and Chinese) for the file name.

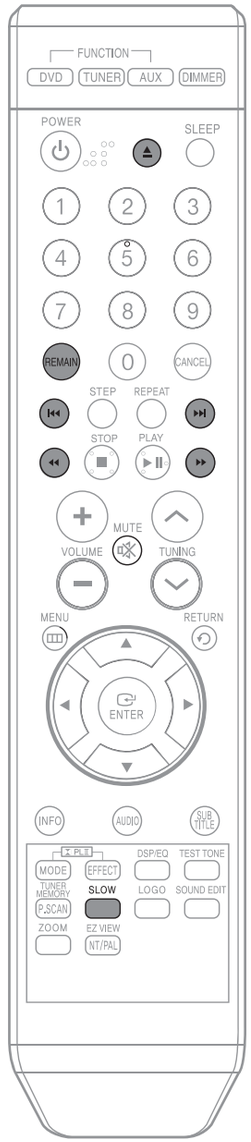
Checking the Remaining Time

Press the **REMAIN** button.

- For checking the total and remaining time of a title or chapter being played.

Each time the REMAIN button is pressed





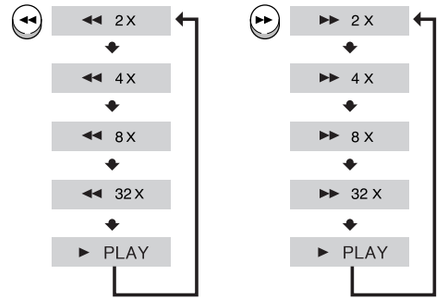
Fast/Slow Playback

Fast Playback

DVD CD MP3

Press ◀◀ ▶▶.

- Each time the button is pressed during playback, the playback speed changes as follows:



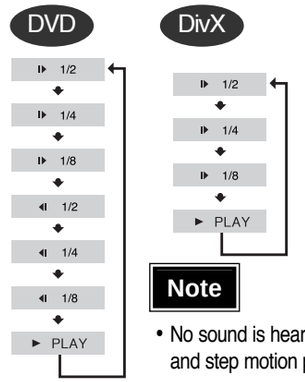
Note

- During fast playback of a CD or MP3-CD, sound is heard only at 2x speed, and not at 4x, 8x, and 32x speeds.

Slow Playback

Press **SLOW** button.

- Each time the button is pressed during playback, the playback speed changes as follows:



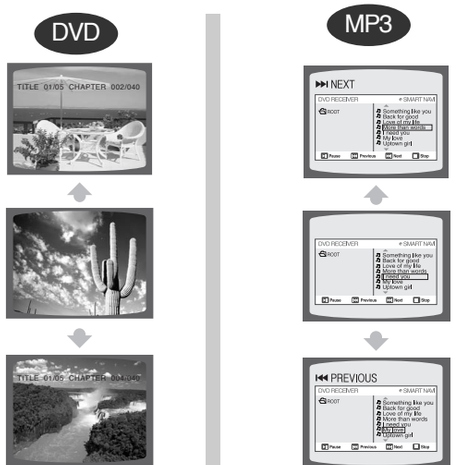
Note

- No sound is heard during slow playback and step motion playback.
- Reverse slow playback does not work with DivX.

Skipping Scenes/Songs

Press ⏮◀◀ ▶▶⏭.

- Each time the button is pressed during playback, the previous or next chapter, track, or directory (file) will be played.
- You cannot skip chapters consecutively.



Repeat Playback

Repeat playback allows you to repeatedly play a chapter, title, track (song), or directory (MP3 file).

DVD CD MP3 JPEG

Press **REPEAT** button.

- Each time the button is pressed during playback, the repeat playback mode changes as follows:

DVD-VIDEO

REPEAT : CHAPTER
↓
REPEAT : TITLE
↓
REPEAT : OFF

CD

REPEAT : TRACK
↓
REPEAT : DISC
↓
REPEAT : OFF

MP3 JPEG

REPEAT : RANDOM
↓
REPEAT : TRACK
↓
REPEAT : DIR
↓
REPEAT : DISC
↓
REPEAT : OFF

Repeat Playback Options

CHAPTER
Repeatedly plays the selected chapter.

TITLE
Repeatedly plays the selected title.

RANDOM
Plays tracks in random order.
(A track that has already been played may be played again.)

TRACK
Repeatedly plays the selected track.

DIR
Repeatedly plays all tracks in the selected folder.

DISC
Repeatedly plays the entire disc.

OFF
Cancels Repeat Playback.

To Select a Repeat Playback Mode in the Disc Information Screen

1 Press **INFO** button twice.

2 Press Cursor ▶ button to move to REPEAT PLAYBACK ( ) display.

3 Press Cursor ▼ button to select the desired Repeat Playback mode.

4 Press **ENTER** button.

DVD

DVD ◀ EN 1/3 OFF/ 02 OFF
↓
A-
↓
CHAP
↓
TITL

CD

VCD 02/02 LR OFF 0:02:20
↓
A-
↓
TRACK
↓
DISC

* For MP3 and JPEG discs, you cannot select Repeat Play from the information display screen.

A-B Repeat Playback

You can repeatedly play back a designated section of a DVD.

DVD

1 Press **INFO** button twice.

DVD ◀ EN 1/3 OFF/ 02 OFF

2 Press Cursor ▶ button to move to REPEAT PLAYBACK ( ) display.

DVD ◀ EN 1/3 OFF/ 02 OFF

3 Press Cursor ▲, ▼ buttons to select 'A-' and then press **ENTER** button at the beginning of the desired segment.

- When **ENTER** button is pressed, the selected position will be stored in memory.

DVD ◀ EN 1/3 OFF/ 02 A-
↓
DVD ◀ EN 1/3 OFF/ 02 A-?

REPEAT : A—

4 Press **ENTER** button at the end of the desired segment.

- The specified segment will be played repeatedly.

DVD ◀ EN 1/3 OFF/ 02 A-B

REPEAT : A—B

To return to normal playback, press Cursor ▲, ▼ buttons to select OFF.

Note

- The A-B Repeat function does not operate with MP3, CD or JPEG discs.

Step Function DVD

Press **STEP** button.

- The picture moves forward one frame each time the button is pressed during playback.

Angle Function DVD

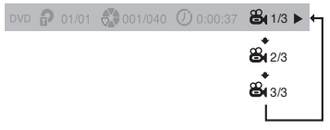
This function allows you to view the same scene in different angles.

1 Press **INFO** button.

2 Press Cursor ▶ button to move to ANGLE ( ) display.

3 Press Cursor ▲, ▼ or numeric buttons to select the desired angle.

- Each time the button is pressed, the angle changes as follows:



Note

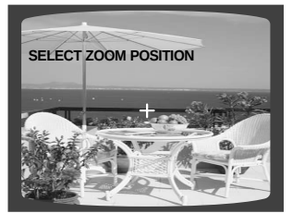
- The Angle function works only with discs on which multiple angles have been recorded.

Zoom (Screen Enlarge) Function

This function allows you to enlarge a particular area of the displayed image.

DVD

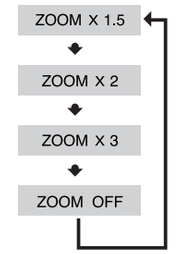
1 Press **ZOOM** button.



2 Press Cursor ▲, ▼, ◀, ▶ buttons to move to the area you want to enlarge.

3 Press **ENTER** button.

- Each time the button is pressed, the zoom level changes as follows:



Note

- When a DivX disc is being played, only the 2:1 zoom-in is available.

EZ VIEW Function DVD

Press **EZ VIEW** button.

- Each time the button is pressed, the zoom function will switch between On and Off.
- When a movie is played in Widescreen format, black bars at the top and bottom of the TV screen can be removed by pressing the **EZ VIEW** button.

Note

- This function will not work if the DVD is recorded with multi-camera angle format.
- Black bars may not disappear because some DVD discs have a built-in horizontal to vertical ratio.
- This feature is not supported for DivX discs.

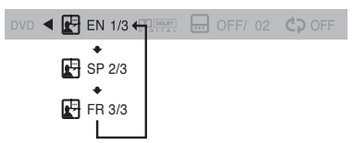
Selecting Audio Language

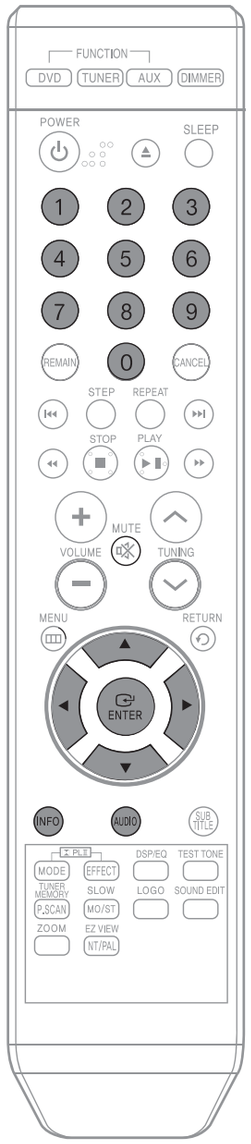
Audio Language Selection Function DVD

1 Press **INFO** button twice.

2 Press Cursor ▲ ,▼ buttons or numeric buttons to select the desired audio language.

- Depending on the number of languages on a DVD disc, a different audio language (ENGLISH, SPANISH, FRENCH, etc.) is selected each time the button is pressed.





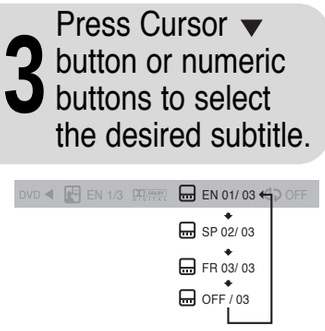
Selecting Subtitle Language

Subtitle Language Selection Function DVD

1 Press **INFO** button twice.

2 Press Cursor ▶ button to move to SUBTITLE ( ) display.

3 Press Cursor ▼ button or numeric buttons to select the desired subtitle.



Note

- To operate this function, you can also press the Select AUDIO or Select SUBTITLE buttons on the remote control.
- Depending on the disc, the Subtitle and Audio Language functions may not be available.

Moving Directly to a Scene/Song

DVD CD

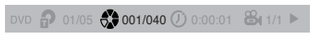
1 Press **INFO** button.

Moving to a Title/Track

2 Press Cursor ▲,▼ buttons or numeric buttons to select the desired title/track and then press **ENTER** button.

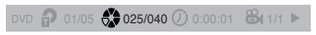
Moving to a Chapter

3 Press Cursor ◀, ▶ buttons to move to Chapter ( ) display.



Moving to a Chapter

4 Press Cursor ▲,▼ buttons or numeric buttons to select the desired chapter and then press **ENTER** button.



Moving to a Specific Time

5 Press Cursor◀,▶ buttons to move to time display.

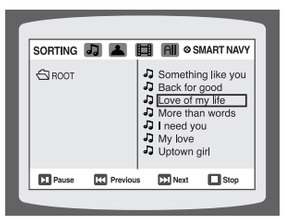
Moving to a Specific Time

6 Press the numeric buttons to select the desired time and then press **ENTER** button.

MP3 JPEG

Press the **numeric** buttons.

- The selected file will be played.
- When playing an MP3 or JPEG disc, you cannot use ▲,▼ to move to a folder. To move a folder, press ■ (Stop) and then press ▲,▼ .



Note

- You can press ⏮ ⏭ on the remote control to move directly to the desired title, chapter, or track.
- Depending on the disc, you may not be able to move to the selected title or time.

Using Disc Menu DVD

You can use the menus for the audio language, subtitle language, profile, etc.
DVD menu contents differ from disc to disc.

1 In Stop mode, press **MENU** button.

2 Press Cursor ▲,▼ buttons to move to 'DISC MENU' and then press **ENTER** button.

- When you select Disc Menu and it is not supported by the disc, the "**This menu is not supported**" message appears on the screen.

3 Press Cursor ▲,▼ ◀, ▶ buttons to select the desired item.

- Press ENTER button.

Note • Disc menu display may be different depending on the disc.

Using the Title Menu

For DVDs containing multiple titles, you can view the title of each movie.
Depending on the disc, the availability of this feature may vary.

DVD

1 In Stop mode, press **MENU** button.

2 Press Cursor ▲,▼ button to move to 'Title Menu'.

3 Press **ENTER** button.

- The title menu appears.

Press **MENU** button to exit the setup screen.

Note • Title menu display may be different depending on the disc.

Setting the Language

OSD (On-Screen Display) language is set to English by default.

1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to '**Setup**' and then press **ENTER** button.

3 Select '**Language**' and then press **ENTER** button

4 Press Cursor ▲ ,▼ button to select '**OSD Language**' and then press **ENTER** button.

5 Press Cursor ▲ ,▼ button to select the desired language and then press **ENTER** button.

- Once the setup is complete, the OSD will be English if English has been selected as language.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Note

- To select another language, select OTHER and enter the language code of your country. (See page 64 for language codes)
  AUDIO, SUB TITLE and DISC MENU language can be selected.

Selecting the OSD Language

Selecting the Audio Language (recorded on the disc)

Selecting the Subtitle Language (recorded on the disc)

Selecting the Disc Menu Language (recorded on the disc)

* If the language you selected is not recorded on the disc, menu language will not change even if you set it to your desired language.

Setting TV Screen type

Depending on your TV type (Wide Screen or conventional 4:3), you can select the TV's aspect ratio.

1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'TV DISPLAY' and then press **ENTER** button.

4 Press Cursor ▲,▼ button to select the desired item and then press **ENTER** button.

- Once the setup is complete, you will be taken to the previous screen.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Adjusting the TV Aspect Ratio (Screen Size)

The horizontal to vertical screen size ratio of conventional TVs is 4:3, while that of widescreen and high definition TVs is 16:9. This ratio is called the aspect ratio. When playing DVDs recorded in different screen sizes, you should adjust the aspect ratio to fit your TV or monitor.

- **For a standard TV, select either "4:3LB" or "4:3PS" option according to personal preference. Select "16:9" if you have a widescreen TV.**

WIDE : Select this to view a 16:9 picture in the full-screen mode on your widescreen TV.
- You can enjoy the widescreen aspect.

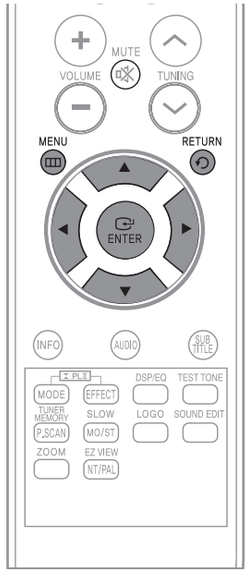
4:3LB (4:3 Letterbox) : Select this to play a 16:9 picture in the letter box mode on a conventional TV.
- Black bars will appear at the top and bottom of the screen.

4:3PS (4:3 Pan&Scan) : Select this to play a 16:9 picture in the pan & scan mode on a conventional TV.
- You can see the central portion of the screen only (with the sides of the 16:9 picture cut off).

Note
- If a DVD is in the 4:3 ratio, you cannot view it in widescreen.
- Since DVD discs are recorded in various image formats, they will look different depending on the software, the type of TV, and the TV aspect ratio setting.

Setting Parental Controls (Rating Level)

Use this to restrict playback of adult or violent DVDs you do not want children to view.



1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

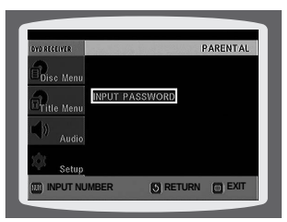
3 Press Cursor ▼ button to move to 'PARENTAL' and then press **ENTER** button.

4 Press Cursor ▲,▼ button to select the desired rating level and then press **ENTER** button.

- If you have selected Level 6, you cannot view DVDs with Level 7 or higher.
- The higher the level, the closer the content is to violent or adult material.

5 Enter the password and then press **ENTER** button.

- The password is set to "7890" by default.
- Once the setup is complete, you will be taken to the previous screen.



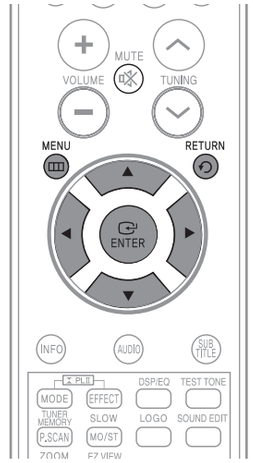
Note • This function works only if a DVD disc contains the rating level information.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Setting the Password

You can set the password for the Parental (rating level) setting.

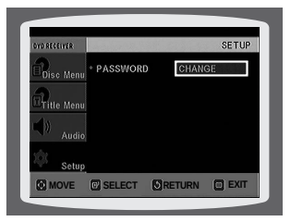


1 Press **MENU** button.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

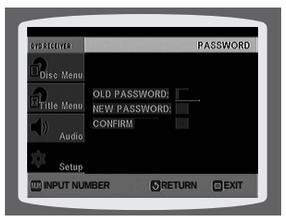
3 Press Cursor ▼ button to move to 'PASSWORD' and then press **ENTER** button.

4 Press **ENTER** button.



5 Enter the password and then press **ENTER** button.

- Enter the old password, a new password, and confirm new password.
- The setting is complete.



Note • The password is set to "7890" by default.

If you have forgotten the rating level password, do the following:

- While the player is in the no disc mode, hold the main unit's ■ button for longer than 5 seconds. "INITIALIZE" appears on the display and all settings will return to the default values.
- Press the POWER button.

Using the RESET function will erase all stored settings.
Do not use this unless necessary.

Setting the Wallpaper JPEG DVD

While watching a DVD, JPEG CD, you can set the image you like as background wallpaper.

Setting the Wallpaper

1 During playback, press **PLAY/PAUSE** button when an image you like appears.

2 Press **LOGO** button.

- "**COPY LOGO DATA**" will be displayed on the TV screen.

3 The power will turn off and then back on.

- The selected wallpaper will be displayed.
- You can select up to 3 wallpaper settings.

To select one of the 3 wallpaper settings you've made

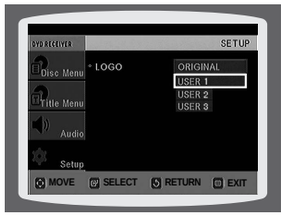
1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'LOGO' and then press **ENTER** button.

4 Press ▼ to select the desired 'USER', and then press **ENTER**.

- This selects one of the 3 wallpaper screens



5 Press **MENU** button to exit the setup screen.

Select this to set the Samsung Logo image as your wallpaper.

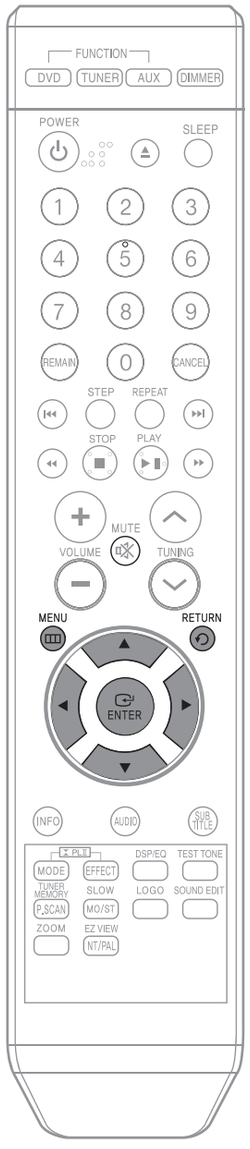
Select this to set the desired image as your wallpaper.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

DivX (R) registration

Please use the Registration code to register this player with the DivX (R) video on demand format.
To learn more, go to www.divx.com/vod.



1 Press the **MENU** button while the disc tray is open.

2 Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'DIVX(R) registration' and then press **ENTER** button.

Setting the Speaker Mode

Signal outputs and frequency responses from the speakers will automatically be adjusted according to your speaker configuration and whether certain speakers are used or not.

1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.

3 In the Speaker Setup, press the **ENTER** button again.

4 Press Cursor ▲, ▼, ◀, ▶ buttons to move to the desired speaker and then press **ENTER** button.

- For C, SL, and SR, each time the button is pressed, the mode switches alternately as follows: SMALL → NONE.
- For L and R, the mode is set to SMALL.

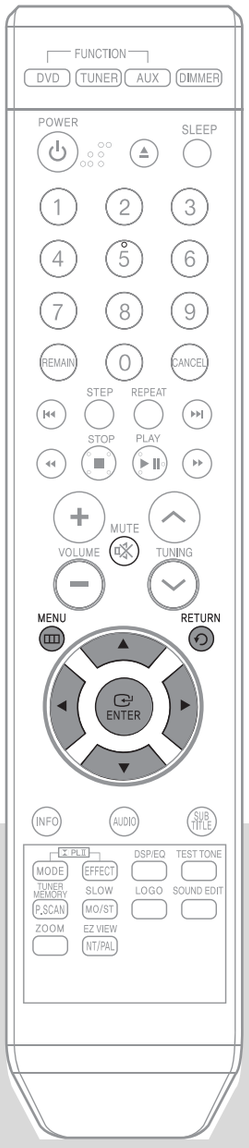
SMALL : Select this when using the speakers.
NONE : Select this when no speakers are connected.

Note

- Depending on PRO LOGIC and STEREO settings, the speaker mode may vary (see page 53).

Setting the Delay Time

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the center and rear speakers.



1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'DELAY TIME' and then press **ENTER** button.

4 Press Cursor ▲,▼, ◀,▶ buttons to move to the desired speaker and then press **ENTER** button.

5 Press Cursor ◀,▶ to set the Delay time.

- You can set the delay time for C between 00 and 05mSEC and for SL and SR between 00 and 15mSEC.

Setting up the Speaker Delay Time

When 5.1CH Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. Since the sounds arrive at the listening position at different times depending on the placement of speakers, you can adjust this difference by adding a delay effect to the sound of the Center and Surround Speakers.

Note

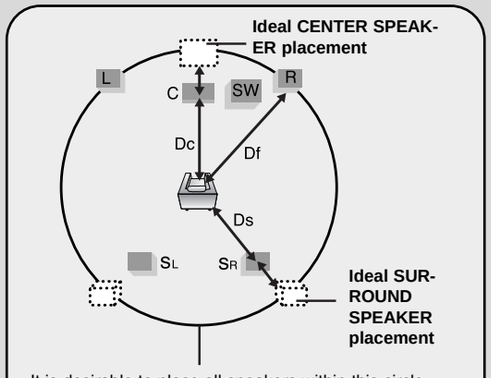
- With DPL II (Dolby Pro Logic II), the delay time may be different for each mode.
- With AC-3 and DTS, the delay time can be set between 00 and 15mSEC.
- The Center channel is only adjustable on 5.1 channel discs.

- **Setting CENTER SPEAKER**
  If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

Distance between Df and Dc	Delay Time
0 inch	0 ms
13.6 inches	1 ms
27.2 inches	2 ms
40.8 inches	3 ms
4.5 feet	4 ms
5.6 feet	5 ms

- **Setting REAR (SURROUND) SPEAKERS**
  If the distance of Df is equal to the distance of Ds in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

Distance between Df and Ds	Delay Time
0 inch	0 ms
40.8 inches	3 ms
6.7 feet	6 ms
10.0 feet	9 ms
13.4 feet	12 ms
16.7 feet	15 ms



It is desirable to place all speakers within this circle.

Df: The distance from FRONT SPEAKER
Dc: The distance from CENTER SPEAKER
Ds: The distance from SURROUND SPEAKER

Setting the Test Tone

Use the Test Tone feature to check the speaker connections.

1 In Stop or no disc mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'TEST TONE' and then press **ENTER** button.

- The test tone will be sent to L → C → R → SR → SL → SW in order.
  If the ENTER button is pressed again at this time, the test tone will stop.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Alternate method: press the **TEST TONE** button on the remote.

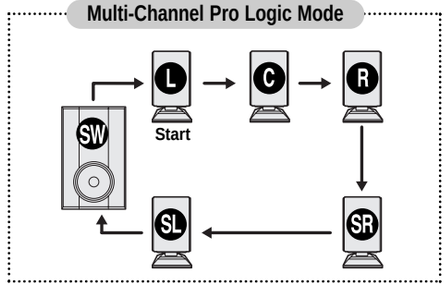
Press **TEST TONE** button.

- Test tone will be produced as follows:
  When playing a DVD or CD, this will work only in Stop mode.
- Use this function to check that each speaker is correctly connected and that there is no problem.

To end the test tone,
press **TEST TONE** button again.

L: Front Speaker (L)	C: Center Speaker	SW: Subwoofer
R: Front Speaker (R)	SL: Rear Speaker (L)	SR: Rear Speaker (R)

Multi-Channel Pro Logic Mode



Setting the DRC (Dynamic Range Compression)

This feature balances the range between the loudest and quietist sounds.
You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.

1 In Stop or no disc mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'DRC' and then press **ENTER** button.

4 Press Cursor ▲ ,▼ to adjust the 'DRC'.

- When the Cursor ▲ button is pressed, the effect is greater, and when the Cursor ▼ button is pressed, the effect is smaller.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Setting the Audio

You can adjust the balance and level for each speaker.

Method 1 When adjusting the audio quality using the setup screen

1 In Stop mode, press **MENU** button.

2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.

3 Press Cursor ▼ button to move to 'SOUND EDIT' and then press **ENTER** button.

4 Press Cursor ▲,▼ buttons to select and adjust the desired item. Press the ◀ ,▶ buttons to adjust the settings.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Method 2 When manually adjusting with the SOUND EDIT button

Adjusting Front Speaker Balance

1 Press **SOUND EDIT** button and then press Cursor ◀ , ▶ .

Adjusting Rear Speaker Balance

2 Press **SOUND EDIT** button and then press Cursor ◀ , ▶ .

Adjusting Center Speaker Level

3 Press **SOUND EDIT** button and then press Cursor ◀ , ▶ .

Adjusting Rear Speaker Level

4 Press **SOUND EDIT** button and then press Cursor ◀ , ▶ .

Adjusting Subwoofer Speaker Level

5 Press **SOUND EDIT** button and then press Cursor ◀ , ▶ .

Note

Adjusting Front/Rear Speaker Balance

- You can select between 00 and –06 and OFF.
- The volume decreases as you move closer to –6.

Adjusting Center/Rear/Subwoofer Speaker Level

- The volume level can be adjusted in steps from +6dB to –6dB.
- The sound gets louder as you move closer to +6dB and quieter as you get closer to -6dB.

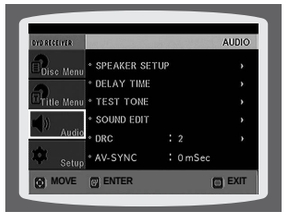
AV SYNC Setup

Video may look slower than the audio if it is connected to a digital TV.
If this occurs, adjust the audio delay time to to match the video.

1 Press the **MENU** button.

- Setup menu appears.

2 Press Cursor ▲ ,▼ buttons to move to 'Audio' and then press **ENTER** button.



3 Press Cursor ▲ ,▼ buttons to move to 'AV-SYNC' and then press **ENTER** button.

4 Press Cursor ▲ ,▼ buttons to select the AV-SYNC Delay Time and then press the **ENTER** button.

- You can set the audio delay time between 0 ms and 300 ms. Set it to the optimal status.

Press **RETURN** button to return to the previous level.

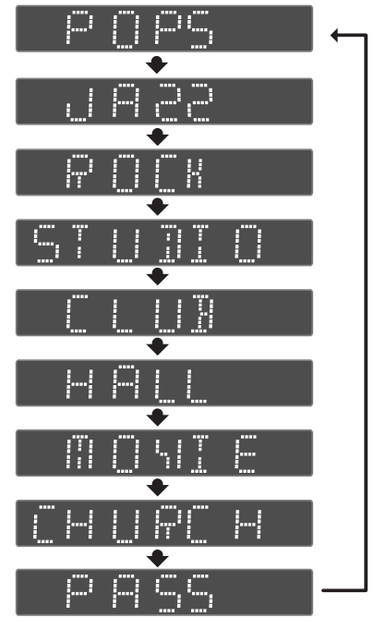
Press **MENU** button to exit the setup screen.

Sound Field (DSP)/EQ Function

DSP(Digital Signal Processor) DSP modes have been designed to simulate different acoustic environments.
EQ: You can select ROCK, POP, or CLASSIC to optimize the sound for the genre of music you are playing

Press **DSP/EQ** button.

- "DSP" appears on the display panel.
- Each time the button is pressed, the selection changes as follows:



Note

- DSP/EQ function is only available in STEREO mode.
  Press the PL II mode button to show STEREO on the display.
- This feature works with CDs, MP3-CDs, 2 channel DivX and Dolby Digital discs.
- When playing a DVD disc encoded with two or more channels, multi-channel mode will be selected automatically and DSP/EQ function does not work.

POP, JAZZ, ROCK: Depending on the genre of music, you can select POP, JAZZ, and ROCK.
STUDIO : Provides a sense of presence as if in a studio.
CLUB : Simulates the sound of a dance club with a throbbing bass beat.
HALL : Provides a clear vocal as if listening in a concert hall.
MOVIE: Provides the feeling of a movie theater.
CHURCH: Gives the feel of being in a grand church.
PASS: Select this for normal listening.

Dolby Pro Logic II Mode

You can select the desired Dolby Pro Logic II audio mode.

Press **PL II MODE** button.

- Each time the button is pressed, the mode changes as follows.

Note

- When selecting Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the player. If you connect to only one of the inputs (L or R), you cannot listen to surround sound.

PRO LOGIC II

- **MUSIC:** When listening to music, you can experience sound effects as if you are listening to the actual performance.
- **CINEMA:** Adds realism to the movie soundtrack.
- **PRO LOGIC:** You will experience a realistic multi-channel effect, as if using five speakers, while using just the front left and right speakers.
- **MATRIX:** You will hear 5.1 channel surround sound.

STEREO: Select this to listen to sound from the front left and right speakers and the subwoofer only.

Dolby Pro Logic II Effect

This function works only in Dolby Pro Logic MUSIC mode.

1 Press **PL II MODE** button to select 'MUSIC' mode.

2 Press **PL II EFFECT** button to select Panorama, then press Cursor ◄ , ► buttons to select the desired effect setting.

- You can select either 0 or 1.
- This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.

3 Press **PL II EFFECT** button to select C-Width, then press Cursor ◄ ,► buttons to select the desired effect setting.

- You can select between 0 and 7.
- This sets the width of the center image. The higher the setting, the less sound comes from the center speaker.

4 Press **PL II EFFECT** button to select Dimension, then press the Cursor ◄ ,► buttons to select the desired setting.

- You can select between 0 and 6.
- Incrementally adjusts the sound field (DSP)from the front or rear.

Note

- When playing a DVD disc encoded with two or more channels, multi-channel mode will be selected automatically and PL II (Dolby Pro Logic II) button does not work.

Listening to Radio

Remote Control Unit

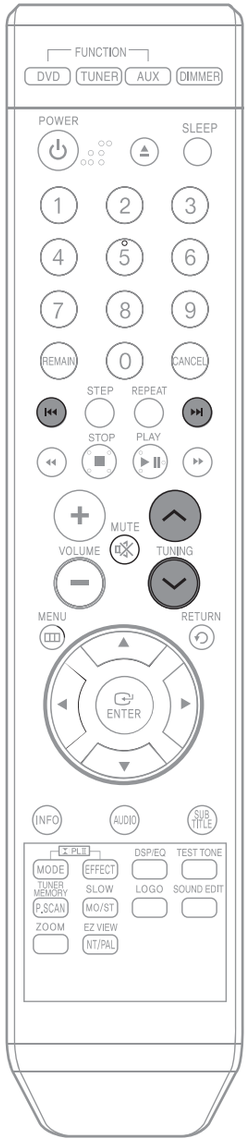
1 Press the **TUNER** button and select the FM band.

2 **Tune in to the desired station.**

Automatic Tuning 1 When ⏮ ⏭ is pressed, a preset broadcast station is selected.

Automatic Tuning 2 Press and hold **TUNING(** ∨ , ∧ **)** to automatically search for active broadcasting stations.

Manual Tuning Briefly press **TUNING(** ∨ , ∧ **)** to increase or decrease the frequency incrementally.



Main Unit

1 Press the **FUNCTION** button to select the FM band.

2 Select a broadcast station.

Automatic Tuning 1 Press the **STOP** (■) button to select PRESET and then press ⏮ ⏭ button to select the preset station.

Automatic Tuning 2 Press the **STOP** (■) button to select "MANUAL" and then press and hold ⏮ ⏭ button to automatically search the band.

Manual Tuning Press **STOP** (■) to select MANUAL and then briefly press ⏮ ⏭ to tune in to a lower or higher frequency.

Press **MO/ST** button to listen in Mono/Stereo.
(This applies only when listening to an FM station.)

- Each time the button is pressed, the sound switches between "STEREO" and "MONO".
- In a poor reception area, select MONO for a clear, interference-free broadcast.

Presetting Stations

Example: Presetting FM 89.1 in the memory

1 Press the **TUNER** button and select the FM band.

2 Press **TUNING** (∨ , ∧) to select "89.10".

- Refer to Step 2 on page 61 to automatically or manually tune in to a station.

3 Press the **TUNER MEMORY** button.

- "PRGM" flashes in the display.

4 Press ⏮ ⏭ to select preset number.

- You can select between 1 and 15 presels.

5 Press the **TUNER MEMORY** button again.

6 To preset another station, repeat steps 2 to 5.

Note • This unit does not receive AM broadcasts.

To tune in to a preset station, press ⏮ ⏭ on the remote control to select a channel.

Convenient Functions

Sleep Timer Function

You can set the time that the Home Theater will shut itself off.

Press **SLEEP** button.

- "SLEEP" will be displayed. Each time the button is pressed, the preset time changes as follows: **10 → 20 → 30 → 60 → 90 → 120 → 150 → OFF**.

To confirm the sleep timer setting, press **SLEEP** button.

- The remaining time before the Home Theater will shut itself off is displayed.
- Pressing the button again changes the sleep time from what you have set earlier.

To cancel the sleep timer, press **SLEEP** button until OFF appears on the display.

Mute Function

This is useful when answering a doorbell or telephone call.

Press **MUTE** button.

- '**MUTE ON**' appears in the display.
- To restore the sound, press the button again to select '**MUTE OFF**'.

Before Calling for Service

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact the nearest authorized dealer or Samsung Electronics Service Center.

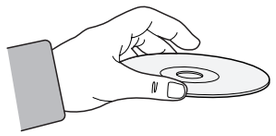
Symptom	Check/Remedy
Disc tray does not open.	• Is the power cord plugged securely into the outlet? • Turn off the power and then turn it back on.
Playback does not start.	• Check the region number of the DVD. DVD discs purchased from abroad may not be playable. • CD-ROMs and DVD-ROMs cannot be played on this Home Theater. • Make sure that the rating level is correct.
Playback does not start immediately when the Play/Pause button is pressed.	• Are you using a deformed disc or a disc with scratches on the surface? • Wipe the disc clean.
Sound is not produced.	• No sound is heard during fast playback, slow playback, and step motion playback. • Are the speakers connected properly? Is the speaker setup correctly customized? • Is the disc severely damaged?
Sound can be heard only from a few speakers and not all six.	• When listening to a CD or radio, sound is output to the front speakers (L/R) only. Select "PRO LOGIC II" by pressing ⧈PL II (Dolby Pro Logic II) on the remote control to use all six speakers. • Make sure that the DVD disc is 5.1-CH compatible. • If you set C, SL, and SR to NONE in the speaker mode in the audio setup of the setup screen, no sound is heard from the center speaker and the front left and right speakers. Set C, SL, and SR to SMALL.
Picture does not appear, sound is not produced, or the disc tray opens 2 to 5 seconds later.	• Was the Home Theater suddenly moved from a cold place to a warm one? When condensation forms inside the player, remove the disc and let the player stand for 1 or 2 hours with the power on. (You can use the player again after condensation disappears.)
Dolby Digital 5.1 CH Surround Sound is not produced.	• Is there "Dolby Digital 5.1 CH" mark on the disc? Dolby Digital 5.1 CH Surround Sound is produced only if the disc is recorded with 5.1 channel sound. • Is the audio language correctly set to DOLBY DIGITAL 5.1-CH in the information display?

Symptom	Check/Remedy
• Disc is rotating but no picture is produced. **• Picture quality is poor and picture is shaking.**	• Is the TV power on? • Are the video cables connected properly? • Is the disc dirty or damaged? • A poorly manufactured disc may not be playable.
The remote control does not work.	• Is the remote control being operated within its operation range of angle and distance? • Are the batteries exhausted? • Have you selected the mode(TV/DVD) functions of the remote control (TV or DVD) correctly?
Audio language and subtitles do not work.	• Audio language and subtitles will not work for DVDs not containing them. And depending on the disc, they may work differently.
Menu screen does not appear even when the menu function is selected.	• Are you using a disc that does not contain menus?
Aspect ratio cannot be changed.	• You can play 16:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX mode, or 4:3 PAN SCAN mode, but 4:3 DVDs can be seen in 4:3 ratio only. Refer to the DVD disc jacket and then select the appropriate function.
• The main unit is not working. (Example: The power goes out or strange noise is heard.) **• The Home Theater is not working normally.**	• Turn off the power and hold the ■ button on the main unit for longer than 5 seconds. **Using the RESET function will erase all stored settings. Do not use this unless necessary.**
The password for rating level has been forgotten.	• While “NO DISC” message appears on the display of main unit, hold the main unit's ■ button for longer than 5 seconds. “INITIALIZE” appears on the display and all settings will return to the default values. • Press the POWER button. **Using the RESET function will erase all stored settings. Do not use this unless necessary.**
Can't receive radio broadcast.	• Is the antenna connected properly? • If the antenna's input signal is weak, install an external FM antenna in an area with good reception.

Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause skipping.
Be especially careful not to scratch discs when handling them.

Handling discs



Do not touch the playback side of the disc.
Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.

Disc Storage

Do not keep in direct sunlight

Keep in a cool ventilated area

Keep in a clean Protection jacket. Store vertically.

Caution

- Do not allow the discs to become contaminated with dirt.
- Do not load cracked or scratched discs.

Handling and Storing Discs

When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

- When cleaning, wipe gently from the inside to the outside of the disc.

Note

- Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

Language Code List

Enter the appropriate code number for the initial settings “Disc Audio”, “Disc Subtitle” and/or “Disc Menu” (See page 37).

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1181	Frisian	1334	Latvian, Lettish	1506	Slovenian
1028	Abkhazian	1183	Irish	1345	Malagasy	1507	Samoan
1032	Afrikaans	1186	Scots Gaelic	1347	Maori	1508	Shona
1039	Amharic	1194	Galician	1349	Macedonian	1509	Somali
1044	Arabic	1196	Guarani	1350	Malayalam	1511	Albanian
1045	Assamese	1203	Gujarati	1352	Mongolian	1512	Serbian
1051	Aymara	1209	Hausa	1353	Moldavian	1513	Siswati
1052	Azerbaijani	1217	Hindi	1356	Marathi	1514	Sesotho
1053	Bashkir	1226	Croatian	1357	Malay	1515	Sundanese
1057	Byelorussian	1229	Hungarian	1358	Maltese	1516	Swedish
1059	Bulgarian	1233	Armenian	1363	Burmese	1517	Swahili
1060	Bihari	1235	Interlingua	1365	Nauru	1521	Tamil
1069	Bislama	1239	Interlingue	1369	Nepali	1525	Tegulu
1066	Bengali; Bangla	1245	Inupiak	1376	Dutch	1527	Tajik
1067	Tibetan	1248	Indonesian	1379	Norwegian	1528	Thai
1070	Breton	1253	Icelandic	1393	Occitan	1529	Tigrinya
1079	Catalan	1254	Italian	1403	(Afan) Oromo	1531	Turkmen
1093	Corsican	1257	Hebrew	1408	Oriya	1532	Tagalog
1097	Czech	1261	Japanese	1417	Punjabi	1534	Setswana
1103	Welsh	1269	Yiddish	1428	Polish	1535	Tonga
1105	Danish	1283	Javanese	1435	Pashto, Pushto	1538	Turkish
1109	German	1287	Georgian	1436	Portuguese	1539	Tsonga
1130	Bhutani	1297	Kazakh	1463	Quechua	1540	Tatar
1142	Greek	1298	Greenlandic	1481	Rhaeto-Romance	1543	Twi
1144	English	1299	Cambodian	1482	Kirundi	1557	Ukrainian
1145	Esperanto	1300	Kannada	1483	Romanian	1564	Urdu
1149	Spanish	1301	Korean	1489	Russian	1572	Uzbek
1150	Estonian	1305	Kashmiri	1491	Kinyarwanda	1581	Vietnamese
1151	Basque	1307	Kurdish	1495	Sanskrit	1587	Volapuk
1157	Persian	1311	Kirghiz	1498	Sindhi	1613	Wolof
1165	Finnish	1313	Latin	1501	Sangro	1632	Xhosa
1166	Fiji	1326	Lingala	1502	Serbo-Croatian	1665	Yoruba
1171	Faeroese	1327	Laothian	1503	Singhalese	1684	Chinese
1174	French	1332	Lithuanian	1505	Slovak	1697	Zulu

Specifications

GENERAL	Power Consumption	40W
	Weight	2.5Kg
	Dimensions (W x H x D)	430 x 65.5 x 256.5 mm
	Operating Temperature Range	+5°C~+35°C
	Operating Humidity Range	10% ~ 75%
FM TUNER	Usable Sensitivity	10dB
	S/N Ratio	50dB
	Distortion	0.8%
VIDEO OUTPUT	Composite Video	1.0Vp-p(75Ω load)
	Component Video	Y:1.0Vp-p(75Ω load)
		Pr:0.70Vp-p(75Ω load)
		Pb:0.70Vp-p(75Ω load)
AMPLIFIER	Front speaker output	40W x 2(3Ω)
	Center speaker output	40W(3Ω)
	Rear speaker output	40W x 2(3Ω)
	Subwoofer speaker output	100W(4Ω)
	Frequency range	20Hz~20KHz
	S/N Ratio	75dB
	Channel separation	45dB
	Input sensitivity	(AUX)400mV

HT-Z110

SPEAKER	Speaker system	5.1ch speaker system		
		Front/Center/Rear speaker		Subwoofer speaker
	Impedance	3Ω		4Ω
	Frequency range	140Hz~20KHz		35Hz~140Hz
	Output sound pressure level	85dB/W/M		85dB/W/M
	Rated input	40W		100W
	Maximum input	80W		200W
	Dimensions (W x H x D)	Front/Rear	90 x 118 x 90 mm	142 x 323 x 317 mm
		Center		
	Weights	Front/Rear	0.47kg/0.38kg	3.47 kg
		Center	0.46kg	

HT-TZ112

SPEAKER	Speaker system	5.1ch speaker system		
		Front/Center/Rear speaker		Subwoofer speaker
	Impedance	3Ω		4Ω
	Frequency range	140Hz~20KHz		35Hz~140Hz
	Output sound pressure level	85dB/W/M		85dB/W/M
	Rated input	40W		100W
	Maximum input	80W		200W
	Dimensions (W x H x D)	Front	90 x 1020 x 92 mm	142 x 323 x 317 mm
		Rear	90 x 118 x 92 mm	
		Center	250 x 91 x 90 mm	
	Weights	Front/Rear	2.8kg/0.4kg	3.47 kg
		Center	0.6kg	

HT-TZ115

SPEAKER	Speaker system	5.1ch speaker system		
		Front/Center/Rear speaker		Subwoofer speaker
	Impedance	3Ω		4Ω
	Frequency range	140Hz~20KHz		35Hz~140Hz
	Output sound pressure level	85dB/W/M		85dB/W/M
	Rated input	40W		100W
	Maximum input	80W		200W
	Dimensions (W x H x D)	Front	90 x 1020 x 92 mm	142 x 323 x 317 mm
		Rear	90 x 1020 x 92 mm	
		Center	250 x 91 x 90 mm	
	Weights	Front/Rear	2.8kg/2.6kg	3.47 kg
		Center	0.6kg	

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Region	Country	Customer Care Center ☎	Web Site
North America	CANADA	1-800-SAMSUNG(726-7864)	www.samsung.com/ca
	MEXICO	01-800-SAMSUNG(726-7864)	www.samsung.com
	U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com
Latin America	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421 , 4004-0000	www.samsung.com
	CHILE	800-SAMSUNG(726-7864)	www.samsung.com/cl
	NICARAGUA	00-1800-5077267	
	HONDURAS	800-7919267	
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
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	PANAMA	800-7267	www.samsung.com/latin
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